

*AMENDMENTS TO THE CLAIMS*

1. (Currently Amended) A system for guiding a vehicle along ~~at least one a~~ guiding rail, having a rolling surface and ~~which~~ at least one side surface that constitutes a guiding surface, ~~of the type which has~~ the system comprising:

a guiding roller device ~~configured to cooperate~~ cooperating with ~~said the~~ rolling surface and ~~said the~~ side surface and ~~having~~ including

a rolling ~~bearing~~ part ~~intended for being in~~ rolling contact ~~by its~~ at a peripheral surface with the ~~upper~~ rolling surface of the rail, and at least one side part ~~capable of coming into contact with the side surface of the rail facing it~~ the at least one side part, characterized by the fact that wherein the rolling part and the side part are rotationally connected and ~~configured such that the side part is in pin-point contact with the rail and has, at its a point of contact (54) with the rail (2), the same speed as central the rolling part (24) at the site of its on the rolling surface on rail (2).~~

2. (Currently Amended) ~~A~~ The system according to Claim 1, ~~characterized by the fact that wherein the side part of the roller device (1) has~~ includes at least one rolling support roller ~~(24)~~ and at least one side roller ~~(25, 26) forming said side part and of which the side part has a diameter and shape of side surface (51, 52) intended for coming into contact with~~ contacting the rail (2) are chosen such so that the side roller, at ~~its~~ the point of contact ~~(54) with the rail (2), has the same speed as central support roller (24) at the rolling part contacting the site of its rolling surface on~~ of the rail.

3. (Currently Amended) ~~A~~ The guiding system according to Claim 2, ~~characterized by the fact that it is guided along~~ for guiding by two parallel guiding rails, ~~of which the~~ having exterior side surfaces ~~constitute the~~ as guiding surfaces, ~~characterized by the fact that it has~~ the guiding system comprising a support roller and a side roller for each guiding rail.

4. (Currently Amended) ~~A~~ The system for guiding a vehicle along a guiding rail, according to Claim 2, ~~characterized by the fact that wherein the guiding roller device has three rollers,~~ includes a central roller and two side rollers (25, 26) forming said as side parts and of which the, the side parts having a diameter and the shape of side surface (51, 52) intended for coming into contact with ~~contacting the rail (2) are chosen such so that~~ the side rollers, ~~at their point points~~ of contact (54) with the rail (2), have the same speed as the central support roller (24) at the site of its rolling surface on of the rail.

5. (Currently Amended) ~~A~~ The system according to one of Claims Claim 2 to 4, ~~characterized by the fact that wherein~~ areas of contact (51, 52) of the side rollers (25, 26) roller have, in radial section, a convex profile, advantageously an arc shape, and by the fact that contact surfaces (46, 47) of the rail are essentially planar.

6. (Currently Amended) ~~A~~ The system according to Claim 4 or 5, characterized ~~by the fact that wherein the side roller (25, 26) is~~ rollers are rotationally synchronized with the central roller (24).

7. (Currently Amended) ~~A~~ The system according to Claim 4 or 6, characterized ~~by the fact that the including means of synchronization of the for synchronizing rotation speed of the side roller (25, 26) rollers with the rotation speed of the central roller (24) comprises comprising teeth (56, 57) associated respectively with the side roller (25) and with the central roller (24), and which mesh with one another.~~

8. (Currently Amended) ~~A~~ The system according to Claim 7, characterized by the ~~fact that a set of wherein the teeth is are mounted on its a support by a via means allowing sliding between the teeth and the support when a relative force exceeding a predetermined threshold is exceeded~~ applied.

9. (Currently Amended) ~~A~~ The system according to Claim 6 7, characterized by ~~the fact that wherein the means of synchronization of the for synchronizing rotation speed~~

of the side roller ~~(25, 26)~~ rollers with the rotation speed of the central roller ~~(24)~~ is the type with includes belts ~~(82, 88)~~ and pulleys ~~(83, 86)~~.

10. (Currently Amended) ~~A~~ The system according to Claim ~~6~~ 7, ~~characterized by the fact that wherein~~ the means of synchronization of the for synchronizing rotation speed of the side roller ~~(129, 130)~~ rollers with the rotation speed of the central roller ~~(128)~~ comprises a ring ~~(153)~~ made out of a nondeformable solid material that comes in contact with a bearing surface ~~(154)~~ of the central roller so as to ensure the rotation of the side roller rollers by friction with the central roller.

11. (Currently Amended) ~~A~~ The system according to Claim 10, ~~characterized by the fact that wherein~~ the central roller ~~(128)~~ is formed by includes a ring rotating freely and maintained by a support device ~~(137)~~ connected with to a support shaft ~~(133)~~.

12. (Currently Amended) ~~A~~ The system according to Claim ~~10~~ 11, ~~characterized by the fact that wherein~~ the support device ~~(137)~~ comprises rollers ~~(143, 144)~~ for support of by a ring ~~(128)~~ and that come into rolling contact with an internal annular surface ~~(145, 146)~~ of the ring.

13. (Currently Amended) ~~A~~ The system according to Claim 1, ~~characterized by the fact that it has~~ including two rollers ~~(167, 168)~~, each of which has roller having a radial external part ~~(170)~~ intended for coming into contact with contacting a side surface of head ~~(42)~~ of the rail ~~(2)~~ and a radial internal part ~~(171)~~ intended for coming into contact with contacting the upper surface of the rail head, the two rollers being arranged in a V-shaped configuration.

14. ~~A~~ The system according to Claim ~~13~~ 1, ~~characterized by the fact that wherein~~ the system ~~has~~ includes two rollers ~~(177, 178)~~, each of which has roller having a radial external part ~~(180)~~ intended for coming into contact with contacting a side surface of head ~~(42)~~ of the rail ~~(2)~~ and a radial internal part ~~(181)~~ intended for coming into contact with the contacting

an upper surface of the rail-head, the two rollers being arranged in a V-shaped configuration, ~~and by the fact that one~~ wherein a first of the rollers ~~(178)~~ has a peripheral ring ~~(183)~~ intended for ~~coming into contact with~~ contacting an annular surface ~~(184)~~ of ~~the other roller~~ ~~(177)~~ ~~so as~~ a second of the rollers to ensure ~~the~~ rotation of the first roller ~~(178)~~ by friction with the second roller ~~(177)~~.